

REMARKS

Responsive to the non-final Office Action mailed February 26, 2009, Applicant has studied the Examiner's comments and the cited art. Claims 1-11, 13-18, 21-23, 29, and 34-37 are pending in the application. Claims 12, 19-20, 24-28, and 30-33 have been previously cancelled from consideration. Claims 1-11, 13-18, 21-23, 29, and 34-37 stand rejected. The drawings stand objected to. After entry of this amendment, claims 1, 3-6, 9, 11, 13-18, 22, 23, 29, and 34-37 remain pending.

Corrections have been made in the specification on page 8, lines 31-33 and page 9, lines 2-10. These changes were made to correct clerical errors and not for any reason substantially related to patentability.

In view of the following remarks, Applicant respectfully submits that the application is in condition for allowance. The Examiner's objections and rejections are addressed below in substantially the same order as in the office action.

Drawing Objections

The drawings were objected to under 37 CFR 1.83(a). Applicant has provided replacement sheets in view of these objections. Numeral **70** has been added to **Fig. 3** and to the specification (page 9, line 9) to identify the heated jacket. Numeral **72** has been added to **Fig. 3** and to the specification (page 9, lines 2 and 3) to identify the fluidizing unit. **Fig. 3** shows one non-limiting embodiment of the displacement means as the combination of the spindle **52** and hand wheel **54**. This combination has been clarified in the specification (page 8, lines 31-33 as amended).

Amendments

Claim 1 has been amended as rewritten above.

Claims 2, 6, 9, 11, 15, 16, 18, 23, and 29 have been amended to depend from claim 1.

Claims 5 and 6 have been amended to replace “let into” with “in”.

Claims 7, 8, 10, and 21 have been canceled.

Claims 34 has been amended to add “, wherein the cyclone chamber is formed by an outer cyclone liner, and wherein the outer cyclone liner and the inner cyclone liner are disposed within a housing configured to contain the inner cyclone line and the outer cyclone liner when the inner cyclone liner is in the inoperative position.”

Claim 36 has been amended to add “, wherein the outer cyclone liner and the inner cyclone liner are disposed within a housing configured to contain the inner cyclone line and the outer cyclone liner when the inner cyclone liner is in the inoperative position.”

Claim Objections

Claims 5 and 6 were objected to as being grammatically incorrect. Applicant has amended claims 5 and 6 in view of these objections.

Claim Rejections Under 35 USC § 112, First Paragraph

Claim 21 is rejected under 35 USC § 112, First Paragraph as being indefinite for failing to enable a displacement means powered by a pressure differential. Claim 21 has been canceled. Applicant respectfully requests withdrawal of the rejection.

Claim Rejections Under 35 USC § 112, Second Paragraph

Claims 2-4, 6, 8, and 9 are rejected under 35 USC § 112, Second Paragraph as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regard as the invention. Claims 3, 4, 6, 8, and 9 are rejected as depending upon rejected indefinite claim 2. Applicant has canceled claims 2 and 8. Claims 3, 6, and 9 are amended to depend from claim 1. Claim 4 depends from claim 3. The Applicant respectfully submits that the structural relationship between the cyclone chamber and the outer cyclone liner is

particularly set out and distinctly claimed in the amendments to claim 1. Applicant respectfully requests withdrawal of the rejections.

Claim Rejections Under 35 USC § 102

Claims 1, 10, 11, 16, and 17 are rejected under 35 U.S.C. § 102(b) as being anticipated by Dewitz, U.S. Patent 4,810,264. Applicant respectfully traverse the rejections. Applicant has amended claim 1, and Applicant respectfully requests withdrawal of the rejections. Dewitz does not have a housing separate from the outer cyclone liner. Claim 10 has been canceled. As claims 11, 16, and 17 depend from claim 1, Applicant respectfully requests withdrawal of the rejections.

Claims 1-11, 13, 14, 18, and 29 are rejected under 35 U.S.C. § 102(e) as being anticipated by Hakola, U.S. Patent 7,185,765. Applicant respectfully traverses the rejections. Applicant has amended 1 and, Applicant respectfully requests withdrawal of the rejections. Hakola does not have a housing separate from the outer cyclone liner. Claims 2, 7, 8, and 10 have been canceled. As claims 3-6, 9, 11, 13, 14, 18, and 29 depend from claim 1, Applicant respectfully requests withdrawal of the rejections.

Claim Rejections Under 35 USC § 103

Claims 15 and 21 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Hakola, U.S. Patent 7,185,765. Applicant respectfully traverses the rejections. Applicant has amended 1 by adding the limitation of a housing separate from the outer cyclone liner wherein a housing is configured to receive the cyclone chamber and the inner cyclone liner in both the operative and the inoperative positions, which is not present in nor taught by Hakola. Hakola does not teach or suggest both an outer cyclone liner and an inner cyclone liner as claimed. Hakola requires opening his cyclone to remove his liners **96, 98, 104** with a crane, which is not necessary with the claimed configuration. Claim 21 has

been canceled and, as claim 15 depends from claim 1, Applicant respectfully requests withdrawal of the rejections.

Claims 34-37 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Dewitz, U.S. Patent 4,810,264. Applicants respectfully traverse the rejections. Applicant has amended claim 34 and 36 by adding the limitation of a housing separate from the outer cyclone liner that allows the method to be performed while the cyclone separator is in operation, which is not present in nor taught by Dewitz. As claims 35 and 37 depend from claims 34 and 36, respectively, Applicant respectfully requests withdrawal of the rejections.

Claim 22 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Hakola and in view of Parkinson et al., U.S. Patent 5,853,266. Applicant respectfully traverses the rejection. Applicant has amended 1 by adding the limitation of a housing separate from the outer cyclone liner such that the cyclone assembly may be placed in the operative position or the inoperative position, which is not present in nor taught by Hakola or Parkinson et al., alone or in combination. As claim 22 depends from claim 1, Applicant respectfully requests withdrawal of the rejection.

Claim 23 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Hakola and in view of Hawley, U.S. Patent 1,755,780. Applicant respectfully traverses the rejection. Applicant has amended 1 by adding the limitation of a housing separate from the outer cyclone liner such that the cyclone assembly may be placed in the operative position or the inoperative position, which is not present in nor taught by Hakola or Hawley, alone or in combination. As claim 23 depends from claim 1, Applicant respectfully requests withdrawal of the rejection.

CONCLUSION

For all the foregoing reasons, Applicant submits that the application is in a condition for allowance and such an action is requested. The Commissioner, however, is authorized to charge any fee that may be due or credit any overpayment related to the filing of this paper to Deposit Account No. **50-4920 (PET-1018US)**.

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Respectfully submitted,

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